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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/783,606	02/20/2004	Robert L. Heimann	EL021RH-2 1566		
7590 06/16/2005			EXAMINER		
ORSCHELN MANAGEMENT CO 2000 US HWY 63 SOUTH			LAVILLA, MICHAEL E		
MOBERLY, N			ART UNIT	PAPER NUMBER	
			1775		

DATE MAILED: 06/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicat	ion No.	Applicant(s)	~		
	10/783,6		HEIMANN ET AL.			
Office Action Summary	Examine	or	Art Unit			
	Michael I	_a Villa	1775			
The MAILING DATE of this comm Period for Reply	unication appears on th	e cover sheet with the	correspondence address	_		
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provisic after SIX (6) MONTHS from the mailing date of this co - If the period for reply specified above, the maximum - Failure to reply within the set or extended period for re Any reply received by the Office later than three month earned patent term adjustment. See 37 CFR 1.704(b)	INICATION. ons of 37 CFR 1.136(a). In no e immunication. y (30) days, a reply within the stu n statutory period will apply and iply will, by statute, cause the ap is after the mailing date of this o	vent, however, may a reply be til atutory minimum of thirty (30) day will expire SIX (6) MONTHS from plication to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s)	filed on					
2a) This action is FINAL.						
3) Since this application is in condition	on for allowance excep	t for formal matters, pr	osecution as to the merits is			
closed in accordance with the pra	ctice under <i>Ex parte</i> Q	<i>uayl</i> e, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims						
4)⊠ Claim(s) <u>1,2,4,5,7,8,10,12-16 and</u>	18-23 is/are pending i	n the application.				
4a) Of the above claim(s) is						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1,2,4,5,7,8,10,12-16 and</u>	18-23 is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to rest	triction and/or election	requirement.				
Application Papers						
9)☐ The specification is objected to by	the Examiner.	·				
10)⊠ The drawing(s) filed on <u>20 Februar</u>	<u>ry 2004</u> is/are: a)⊠ ad	ccepted or b) objecte	ed to by the Examiner.			
Applicant may not request that any ob	ejection to the drawing(s)	be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) includi		- • •	•			
11) The oath or declaration is objected	I to by the Examiner. N	lote the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119						
12)□ Acknowledgment is made of a clai	m for foreign priority u	nder 35 U.S.C. § 119(a)-(d) or (f).			
a)□ All b)□ Some * c)□ None of:						
1. Certified copies of the priori	-					
2. Certified copies of the priori						
3. Copies of the certified copie			ed in this National Stage			
application from the Interna	•	· • •	o d			
* See the attached detailed Office ac	uon ioi a iist oi tile cei	uned copies not receive	eu.			
Attachment(s)						
1) X Notice of References Cited (PTO-892)		4) Interview Summary				
 Notice of Draftsperson's Patent Drawing Review Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date <u>20040830</u>. 		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)			
J.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Action Summ	ary Pa	art of Paper No./Mail Date 20050613			

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DETAILED ACTION

Specification

- 1. The incorporation of essential material in the specification by reference to a foreign application or patent, or to a publication is improper. Applicant is required to amend the disclosure to include the material incorporated by reference. The amendment must be accompanied by an affidavit or declaration executed by the applicant, or a practitioner representing the applicant, stating that the amendatory material consists of the same material incorporated by reference in the referencing application. See *In re Hawkins*, 486 F.2d 569, 179 USPQ 157 (CCPA 1973); *In re Hawkins*, 486 F.2d 579, 179 USPQ 163 (CCPA 1973); and *In re Hawkins*, 486 F.2d 577, 179 USPQ 167 (CCPA 1973).
- 2. At various locations in the Specification, applicant indicates a desire to "incorporate by reference" previously mentioned references. Some of these previously mentioned references are foreign patent documents and ordinary publications. To the extent that the referred to subject matter is "essential material," the request for "incorporation by reference" is improper and objected to.
- 3. The disclosure is objected to because of the following informalities: At various locations in the Specification, applicant refers to United States patent applications with varying degrees of description. Where possible, provision of serial numbers and/or issued patent numbers instead of

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attorney docket numbers is requested. In this manner, the reader will be able to locate the described subject matter.

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4. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the first paragraph of 35 U.S.C. 112:
- 6. The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 7. Claims 1, 2, 4, 7, 8, 10, 12-16, 18, 20, and 21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. It is unclear where applicant derives antecedent support for an article whose surface is something other than an "electrically conductive surface." The field of the invention is described as pertaining to such surfaces, and applicant has not pointed to support in the Specification or otherwise for a more broadly claimed surface or otherwise provided justification for eliminating this limitation from the claims. Removal of this limitation therefore apparently constitutes introduction of new matter.
- 8. The following is a quotation of the second paragraph of 35 U.S.C. 112:
- 9. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 10. Claims 12-16, 19, and 21-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - I. Regarding Claim 12, line 2, it is unclear what is meant by the phrase "selected from the group consisting of from the group of." Is this intended to be standard Markush group language or something else?
 - II. Regarding Claim 13, line 3, it is unclear what is meant by the phrase beginning "further comprising rinsing." Does this specify an additional product-by-process limitation? Must the step occur before or after the already listed steps of Claim 1? Is the step to occur between the "drying" and "applying a coating" steps? Regarding Claim 13, line 5, it is unclear what is meant by the phrase "further comprising applying at least one secondary coating." Does this specify an additional product-by-process limitation? It is unclear what is the sequential relationship between this additional step and those specified in Claim 1 and those in Claim 13.
 - III. Regarding Claim 14, it is unclear what is the antecedent basis of the phrase "said rinsing comprising" as there is no rinsing step listed in Claim 1.

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IV. Regarding Claim 16, it is unclear what is the antecedent basis of the phrase "said exposing" as there is no exposing step listed in Claim 1.

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- V. Regarding Claim 19, line 3, it is unclear what is meant by the phrase "wherein said." Is this the article, the composition generally, or something else? In the last line of Claim 19, it is unclear what is meant by the phrase "exposure to white rust." Does this refer to the development of white rust during the course of the testing procedure or to something else?
- VI. Regarding Claim 21, it is unclear whether the claimed heating describes the medium temperature at the time of initial contact or possibly subsequent to initial contact. It is unclear what is the relationship between the claimed heating step of Claim 21 and the claimed contacting step already presented in Claim 1.

Claim Rejections - 35 USC § 102

- 11. The following is a quotation of the appropriate paragraphs of 35U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
- 12. A person shall be entitled to a patent unless -
- 13. (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 14. Claims 1, 2, 5, 7, 8, 10, 12, 14-16, and 18-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Petrole et al. USP 5.700.523.

Petrole et al. teaches coating a zinc surface with a silicate solution and silane solution. See Petrole et al. (col. 7, lines 14-52; and Table 1). While Petrole does not teach using colloidal silica or other additives to the medium, the claimed surface is not described as necessarily containing colloidal silica or other additives, and so the claimed article is taught by Petrole notwithstanding the absence of these ingredients in the media of Petrole. Negligible amounts of colloidal silica in the medium would not be expected to result in obtained products that recognize the presence of such negligible amounts. Those panels that performed well in the ASTM B117 test would be expected to satisfy the claimed criteria

15. Claims 1, 2, 4, 5, 7, 8, 10, 12-16, 18, 20, and 21 are rejected under 35

U.S.C. 102(b) as being anticipated by Kushida et al. USP 5,091,224.

Kushida et al. teaches coating a stainless steel surface with a sodium silicate solution and monomer solution of silicate ester compounds that would be expected to cure to form a silane or silicone type coating. See Kushida et al. (Abstract; col. 4, line 43 through col. 7, line 25). While Kushida does not teach using colloidal silica or other additives to the medium, the claimed surface is not described as necessarily containing colloidal silica or other additives, and so the claimed article is taught by Kushida notwithstanding the absence of these ingredients in the media of Kushida. Negligible amounts of colloidal silica in the medium would not be expected to result in obtained products that recognize the presence of such negligible amounts.

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16. Claims 1, 2, 4, 5, 7, 8, 10, 12-16, and 18-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Purnell et al. USP 5,451,431. Purnell teaches coating galvanized steel substrate with a silicate layer and epoxy layer. The articles have excellent ASTM B117 performance which would be expected to meet the claimed limitation of Claim 19. See Purnell (col. 3, line 49 through col. 4, line 49; and Table IV). While Purnell does not teach using colloidal silica or other additives to the medium, the claimed surface is not described as necessarily containing colloidal silica or other additives, and so the claimed article is taught by Purnell notwithstanding the absence of these ingredients in the media of Purnell. Negligible amounts of colloidal silica in the medium would not be expected to result in obtained products that recognize the presence of such negligible amounts.

17. Claims 1, 2, 4, 5, 7, 8, 10, 12-16, 18, 20, and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Sabata et al. USP 5,478,655. Sabata teaches coating a stainless steel surface with a sodium silicate solution, a monomer silane solution that cures to form a silicone layer, and an epoxy paint layer. See Sabata (Abstract; Table 1 and corresponding text; and col. 9, lines 41-67). While Sabata does not teach using colloidal silica or other additives to the medium, the claimed surface is not described as necessarily containing colloidal silica or other additives, and so the claimed article is taught by Sabata notwithstanding the absence of these ingredients in the media of Sabata. Negligible amounts of colloidal

silica in the medium would not be expected to result in obtained products that recognize the presence of such negligible amounts.

18. Claims 1, 2, 4, 5, 7, 8, 10, 12-16, 18, 20, and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by van Ooij et al. USP 5,108,793. van Ooij et al. teaches coating a galvanized steel surface with a sodium silicate solution, a monomer silane solution that cures to form a silane layer, and an epoxy paint layer. See van Ooij (Abstract; col. 2, line 36 through col. 4, line 11; col. 5, line 31 through col. 6, line 10; and Table 2 and corresponding text). While van Ooij does not teach using colloidal silica or other additives to the medium, the claimed surface is not described as necessarily containing colloidal silica or other additives, and so the claimed article is taught by van Ooij notwithstanding the absence of these ingredients in the media of van Ooij. Negligible amounts of colloidal silica in the medium would not be expected to result in obtained products that recognize the presence of such negligible amounts.

CONCLUSION

- 19. Claim 23 is not rejected over the reviewed prior art nor the prior art of record since a laminate having the claimed features, including the silica intermediate layer, is not taught or suggested. However, Claim 23 has been rejected under section 112, second paragraph since its claim scope is indefinite.
- 20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone

number is (571) 272-1539. The examiner can normally be reached on Tuesday, Thursday, and alternating Fridays.

- 21. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 22. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

all

Michael La Villa 13 June 2005

ACHAEL E. LAVILLA PH.D. PRIMARY EXAMINER